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| APPLICATION NO.    | FILING DATE             | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |  |
|--------------------|-------------------------|----------------------|---------------------|------------------|--|--|
| 10/790,920         | 03/02/2004              | Albert A. Vierheilig | 0113222-150         | 1426             |  |  |
| 28089 7            | 7590 05/13/2005         |                      | EXAM                | EXAMINER         |  |  |
| WILMER CU          | JTLER PICKERING<br>ENUE | HERTZOG,             | HERTZOG, ARDITH E   |                  |  |  |
| NEW YORK, NY 10022 |                         |                      | ART UNIT            | PAPER NUMBER     |  |  |
| ,                  |                         |                      | 1754                | •                |  |  |

DATE MAILED: 05/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | ·   |                                       |   | <b>_</b>          | · · · · · · · · · · · · · · · · · · · |  |  |  |
|---|---|---------------------------------------|---|-------------------|---------------------------------------|--|--|--|
|   |   | Application                           | No.   | Applicant(s)      |                                       |  |  |  |
|   |   | 10/790,920                            |   | VIERHEILIG ET AL. |                                       |  |  |  |
|   | Office Action Summary   | Examiner                              |   | Art Unit          |                                       |  |  |  |
|   |   | Ardith E. Her                         | <del>-</del>  | 1754              |                                       |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  |   |                                       |   |                   |                                       |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |   |                                       |   |                   |                                       |  |  |  |
| Status  |   |                                       |   |                   |                                       |  |  |  |
| 1)[🛛  | Responsive to communication(s) file   | ed on 02 March 2004.                  |   |                   |                                       |  |  |  |
|   | •   | · · · · · · · · · · · · · · · · · · · |   |                   |                                       |  |  |  |
| 3)  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. |                                       |   |                   |                                       |  |  |  |
| Disposition of Claims   |   |                                       |   |                   |                                       |  |  |  |
| 4)  Claim(s) 1-28 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) 1-28 are subject to restriction and/or election requirement.  |   |                                       |   |                   |                                       |  |  |  |
| Applicati   | on Papers   |                                       |   |                   |                                       |  |  |  |
| •   | The specification is objected to by th  |                                       | •   |                   |                                       |  |  |  |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  |   |                                       |   |                   |                                       |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |   |                                       |   |                   |                                       |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  |   |                                       |   |                   |                                       |  |  |  |
| Priority u  | inder 35 U.S.C. § 119   |                                       |   |                   |                                       |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>  |   |                                       |   |                   |                                       |  |  |  |
| Attachmen   | t(s)  |                                       |   |                   |                                       |  |  |  |
| 1)  Notic<br>2)  Notic<br>3)  Inform  | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date  | PTO/SB/08) 5)                         | Interview Summary Paper No(s)/Mail Da Notice of Informal P Other: |                   | 2)                                    |  |  |  |

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## **DETAILED ACTION**

## Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
  - Group I. Claims 1-19, drawn to processes for removing a reduced sulfur gas/species from a process stream, classified in class 423, subclass 220+.
  - Group II. Claims 20-28, drawn to methods of stabilizing an unreacted alumina support so as to be chemically nonreactive with zinc atoms from a zinc-containing compound comprising a reduced sulfur sorbent composition, classified in class 502, subclass 414.
- 2. The inventions are distinct, each from the other because of the following reasons:

The inventions of Group I and Group II are related as combination and

subcombination. Inventions in this relationship are distinct if it can be shown that:

(1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) the subcombination has utility by itself or in other combinations (see MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed, because the Group I processes do not require the Group II methods – that is, the gas contacting processes of Group I do not require the chemical reaction steps of Group II. The subcombination has separate utility by itself, i.e., in the instantly recited stabilization methods.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper. **In addition**, it is respectfully noted that this restriction is in keeping with that made in parent application serial number

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09/541,204, wherein restriction was required between processes in accordance with the above **Group I** (i.e., original claims 1-13 in 09/541,204) and products/methods of making **encompassing** methods of the above **Group II** (i.e., original claims 14-79, noting especially claims 54-79).

- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (see 37 CFR § 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR § 1.48(b) and by the fee required under 37 CFR § 1.17(i).

## Conclusion

- 6. Any inquiry concerning this communication should be directed to Ardith E. Hertzog at telephone number (571) 272-1347. The examiner can normally be reached on Monday through Friday (from about 8:00 a.m. 4:00 p.m.).
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman, can be reached at (571) 272-1358. The fax phone number for the organization where this application is assigned is 703-872-9306.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Center (EBC) at 866-217-9197 (toll-free).

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. For any questions on access to the Private PAIR system, contact the Electronic Business

ABH May 5, 2005

> STANLEY S. SILVERMAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700